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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-21-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/04/2023

Date: 28/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	150.82 X 149.57 X 149.39	22557	8.158	759.3	33.7	33.2
2	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	151.12 X 150.82 X 151.17	22791	8.109	743.6	32.6	
3	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	151.18 X 149.34 X 151.87	22578	8.567	751.4	33.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 28/04/2023

Lab ID	:	CP-2023-04-21-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	149.47 X 149.43 X 151.91	22335	8.686	755.0	33.8	33.4
2	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	149.95 X 150.56 X 150.49	22577	8.755	744.6	33.0	
3	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	149.36 X 149.59 X 151.47	22343	8.389	748.4	33.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-04-21-23

Date: 28/04/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.

Customer's Reference : BBMP/EE/BTP/WO/182/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	150.96 X 151.46 X 149.66	22864	8.114	759.0	33.2	33.1
2	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	151.34 X 150.05 X 149.19	22708	8.712	738.2	32.5	
3	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	150.51 X 151.62 X 149.13	22820	8.667	767.7	33.6	

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Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-21-23** **Date: 28/04/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	149.85 X 151.96 X 151.02	22771	8.648	763.1	33.5	33.0
2	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	149.10 X 149.34 X 149.78	22267	8.661	717.9	32.2	
3	Cement Concrete Pavement	M30	31/03/2023	28/04/2023	149.65 X 149.20 X 149.70	22328	8.756	745.1	33.4	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 29/04/2023

Lab ID	:	CP-2023-04-21-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.77 X 149.17 X 149.69	22341	8.761	756.2	33.8	33.2
2	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	151.72 X 151.45 X 151.26	22978	8.253	741.2	32.3	
3	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	151.17 X 151.24 X 150.93	22863	8.749	768.5	33.6	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore -97

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	150.87 X 151.92 X 150.46	22920	8.715	758.6	33.1	32.9
2	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.29 X 150.03 X 149.01	22399	8.425	717.3	32.0	
3	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	150.27 X 149.13 X 151.82	22409	8.169	755.3	33.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/04/2023

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Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	150.09 X 151.48 X 149.18	22736	8.522	758.0	33.3	33.1
2	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	151.39 X 150.24 X 150.87	22745	8.970	744.8	32.7	
3	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.43 X 151.53 X 149.45	22644	8.303	749.6	33.1	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
6	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	7 sets /31-100 cum	184.2	14	14

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 23-03-23

Lab ID	:	CP-2023-04-21-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.65	-
2	Finess by Air permeablity method (m^2/kg,Min)	296.7	225m^2/kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (i.e Chatelier's Method)	2mm	Not more than 10 mm

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2023-04-21-23
		Date: 18-04-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	21-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Technical Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT ON COARSE AGGREGATES

Date: 24-03-23

Lab ID	:	CP-2023-04-21-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-03-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
6	Pan	564	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-04-21-23

Date: 24-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.19	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-21-23** **Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-04-21-23 Date: 23-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Technical Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 23-03-23

Lab ID	:	CP-2023-04-21-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-03-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	202	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	193	587	58.7	41.3	15-34	35-59	60-79	80-100
6	300 micron	183	770	77.0	23.0	5-20	8-30	12-40	15-50
7	150 micron	141	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Date: 23-03-23

Lab ID : CP-2023-04-21-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	8.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Technical Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-04-21-23**
		Date: 29-03-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	25/03/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.116	4718	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.49	100.52	1.122	4715	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.50	100.51	1.118	4716	81.5	17.3	16.1	20.1

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-21-23 **Date: 07/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.

Customer's Reference : BBMP/EE/BTP/WO/182/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	149.98 X 150.23 X 150.23	22531	8.632	572.0	25.4	25.5
2	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	151.96 X 150.81 X 150.56	22917	8.295	599.6	26.2	
3	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	149.48 X 150.63 X 151.29	22516	8.429	561.0	24.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-21-23 **Date: 07/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.

Customer's Reference : BBMP/EE/BTP/WO/182/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	149.15 X 150.39 X 149.41	22430	8.949	582.6	26.0	25.6
2	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	150.35 X 150.54 X 150.92	22633	8.355	592.7	26.2	
3	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	151.09 X 149.69 X 151.12	22617	8.758	557.7	24.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/04/2023

Lab ID	:	CP-2023-04-21-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	151.86 X 151.39 X 149.27	22990	8.742	591.9	25.7	25.4
2	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	150.32 X 150.88 X 151.45	22681	8.388	592.3	26.1	
3	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	151.84 X 151.13 X 149.31	22947	8.649	559.6	24.4	

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/04/2023

Lab ID	:	CP-2023-04-21-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	151.14 X 149.52 X 150.13	22599	8.472	568.3	25.1	25.2
2	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	149.11 X 150.50 X 149.31	22441	8.589	591.0	26.3	
3	Cement Concrete Pavement	M30	31/03/2023	07/04/2023	150.13 X 151.66 X 149.05	22768	8.323	548.0	24.1	

* The results obtained are satisfactory as per standard requirements

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-21-23 **Date: 08/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13. (Doddabommasandra)

Agency : M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.

Customer's Reference : BBMP/EE/BTP/WO/182/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	150.50 X 149.11 X 149.34	22440	8.600	566.4	25.2	25.3
2	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	149.07 X 150.98 X 149.30	22505	8.336	594.2	26.4	
3	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	151.44 X 151.72 X 149.64	22976	8.258	557.8	24.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 08/04/2023

Lab ID	:	**CP-2023-04-21-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	M/s Sri Chowdeshwari Constructions, Pro. Sri Sharath J N, No:405, 3rd Cross , New Bel Road, Devasandra , Chikkamaranahalli, Bangalore-560054.
Customer's Reference	:	BBMP/EE/BTP/WO/182/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	149.85 X 151.44 X 149.20	22694	8.446	579.6	25.5	25.2
2	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	149.98 X 151.83 X 149.92	22771	8.887	593.4	26.1	
3	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	150.25 X 149.36 X 149.67	22441	8.203	540.2	24.1	

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Vidyaranyapura Sub Division
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-21-23 Date: 08/04/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Hanuma Layout, Yelagamma Layout Anjaneya Temple and Surrounding areas in Ward No.13, (Doddabommasandra)

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Customer's Reference : BBMP/EE/BTP/WO/182/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	150.33 X 151.36 X 149.92	22754	8.139	583.9	25.7	25.7
2	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	150.72 X 151.73 X 151.14	22869	8.886	605.2	26.5	
3	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	151.91 X 150.16 X 151.52	22810	8.659	570.1	25.0	

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